



Leadership Group

Scott Goetz (Science Lead)

Charles Miller (Deputy Lead)

Peter Griffith (CCE Office @ GSFC)

-Liz Hoy, Dan Hodkinson, Libby Larsen

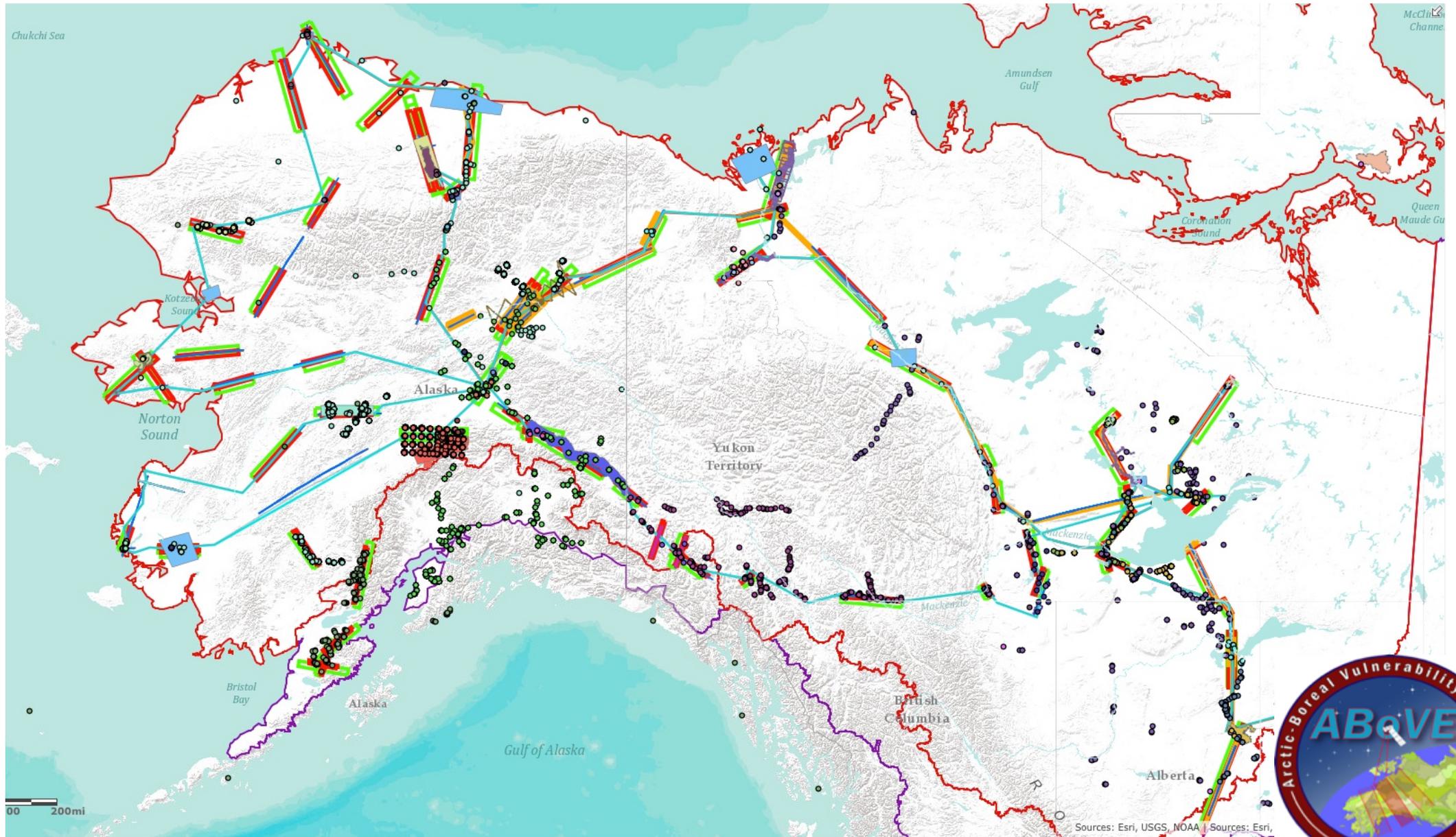
Eric Kasischke (Project Scientist @HQ)

Hank Margolis (Program Manager @HQ)

above.nasa.gov



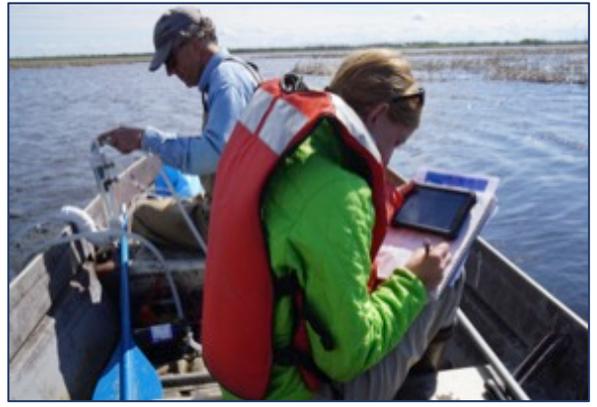
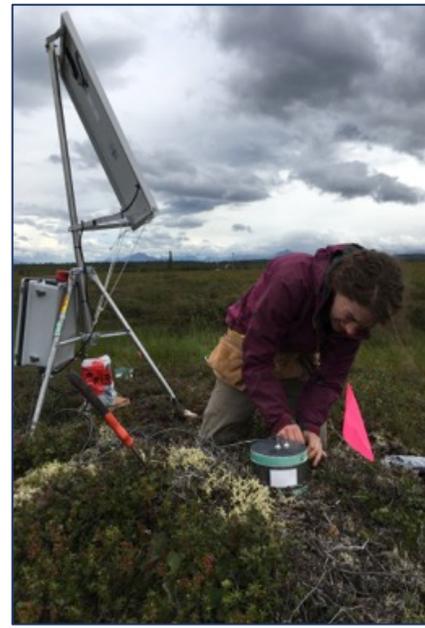
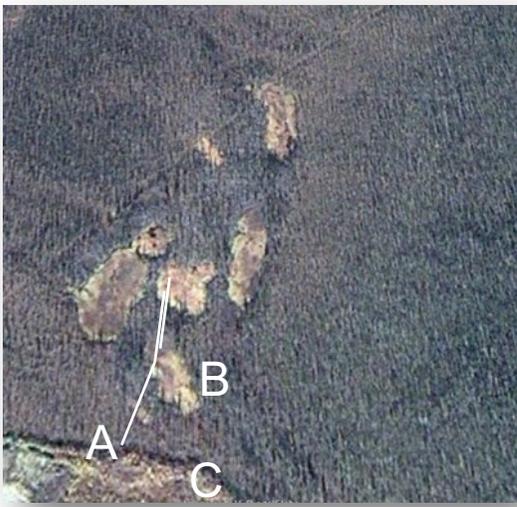
2017 Airborne & Field Campaign Data Acquisitions



above.nasa.gov/airborne.html



Field Campaign Activities





Search



Science Team

Airborne Planning

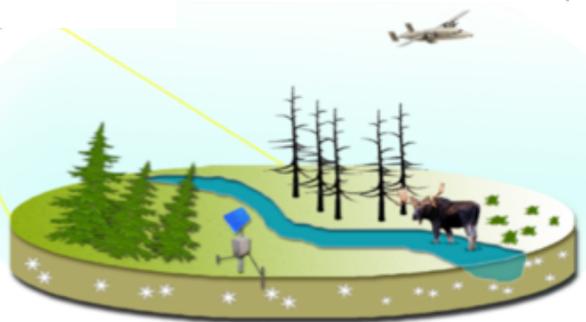
Meetings & Events

Working Groups - the Core of ABoVE Science Efforts

ABoVE Working Groups

- ABoVE WG Telecon Email List: above_wg_telecon@cce.nasa.gov
- Join a WG: click "join" to send email with your name/affiliation to web support
- ABoVE Projects - Measurements - WG Members Summary Excel Report >>
- Ad Hoc Working Groups >>

Working Group >> description	Email List	Members	Join	Measurements of WG Projects (excel)
Hydrology & Permafrost >>	above_wg_hydrology@cce.nasa.gov	Members >>	join	excel
Vegetation Dynamics >>	above_wg_vegdynamics@cce.nasa.gov	Members >>	join	excel
Fire Disturbance >>	above_wg_fire@cce.nasa.gov	Members >>	join	excel
Carbon Dynamics >>	above_wg_carbon@cce.nasa.gov	Members >>	join	excel
Wildlife & Ecosystem Services >>	above_wg_wildlife@cce.nasa.gov	Members >>	join	excel
Modeling Framework & Comparisons >>	above_wg_modeling@cce.nasa.gov	Members >>	join	N/A
Airborne Science >>	above_wg_airborne@cce.nasa.gov	Members >>	join	excel



ABOVE Working Group Coordination & Synthesis Activities

Carbon Dynamics:

Changes in seasonal amplitude of CO₂ concentrations

CH₄ data/knowledge gaps; Aquatic carbon fluxes

Partitioning net ecosystem exchange components

CO₂ flux syntheses / C Flux measurements in permafrost ecosystems (**with Hydrology/Permafrost WG & Permafrost C Network**)

Hydrology / Permafrost:

Active Layer Distribution - synthesize & assess active layer depths (**with SAR WGs**)

Freeze-thaw dynamics and timing (**with C Dynamics WG**)

Lake trends – comparison of methods & long-term trends in lake area, and drivers

Snow properties – crosscutting synthesis activity **with Wildlife WG**

Fire Disturbance:

Wildfire soil carbon combustion synthesis

Post-fire forest regrowth composition & trajectories (**with Veg Dynamics WG**)

Vegetation Dynamics:

Succession/recovery following disturbances (**with Fire WG**)

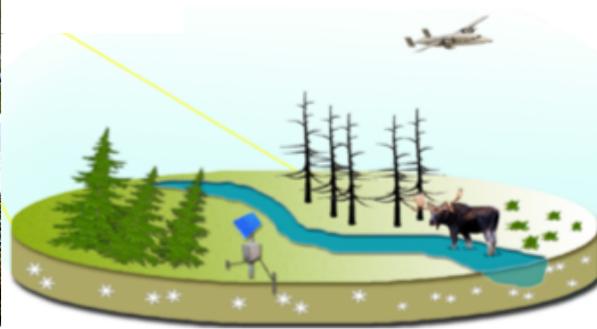
Forest greening/browning including role of climate & insects in forest decline

Tundra greening/browning including shrub expansion & densification





above.nasa.gov/implementation_plan.html



Following Phase-1 proposal selections the **Experiment Plan** was transformed into an **Implementation Plan**



145 publications currently reported by ABoVE projects

81 publications by 20 of the 61 NASA funded projects.

6 pubs by 2 of the 17 affiliated projects.

58 pubs by NGEA Arctic.

Please upload your pub citations to your ABoVE project web site
(and keep Hank / HQ apprised of them)

ABoVE currently has 564 participants

Resiliency and Vulnerability of Arctic and Boreal Ecosystems to Environmental Change: Advances and Outcomes of ABoVE (the Arctic Boreal Vulnerability Experiment)



<http://iopscience.iop.org/journal/1748-9326/page/ABoVE>

Guest Editors

Scott Goetz, Northern Arizona University
Natalie Boelman, Columbia University
Abhishek Chatterjee, NASA Goddard Space Flight Center
Roisin Commane, Harvard University
Joshua Fisher, NASA / Caltech Jet Propulsion Laboratory
Peter Griffith, NASA Goddard Space Flight Center
Mike Goulden, University of California at Irvine
John Kimball, University of Montana
Tatiana Loboda, University of Maryland
Michelle Mack, Northern Arizona University
Charles Miller, NASA / Caltech Jet Propulsion Laboratory
Sue Natali, Woods Hole Research Center
Christopher Neigh, NASA Goddard Space Flight Center
Brendan Rogers, Woods Hole Research Center
Merrit Turetsky, University of Guelph
Jennifer Watts, University of Montana

ASTM4 Organizing Committee

Boelman, Natalie	Lamont-Doherty Earth Observatory, Columbia Univ.
Boyer, Alison	Oak Ridge National Laboratory
Chatterjee, Abhishek	NASA GSFC / USRA GESTAR
Cook, Bruce	NASA GSFC
Fisher, Joshua	NASA JPL
Goulden, Michael	University Of California, Irvine
Houben, Adam	Polar Knowledge Canada
Kimball, John	University of Montana
Larson, Elisabeth	NASA GSFC / SSAI
Loboda, Tatiana	University of Maryland
Mack, Michelle	Northern Arizona University
Neigh, Christopher	NASA GSFC
Schaefer, Kevin	National Snow and Ice Data Center
Serbin, Shawn	Brookhaven National Laboratory
Turetsky, Merritt	University of Guelph

